

## EAST Search History

| Ref # | Hits   | Search Query  | DBs                  | Default Operator | Plurals | Time Stamp          |
|-------|--------|---|----------------------|------------------|---------|---------------------|
| S1    | 6163   | (core particle particulate powder acicular elongated whisker needle rod) near9 (ITO ATO AZO (indium antimony In Sb) near2 (Sn tin) adj oxide ( In Sb) near2 "SnO.sub.2" (Al aluminum Ga! Gallium) near2 (ZnO zinc adj oxide) "BaPbO.sub.3" BaPbO3 barium adj plumbate)  | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:40 |
| S2    | 4323   | S1 and (particle grain powder particulate oxide ITO ATO AZO) near5 (nano\$12 nm ultrafine ultra\$2fine submicron sub\$2micron millimicron ".mu.m" micron )  | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:41 |
| S3    | 757    | S2 and (acicular needle whisker tubular rod elongated ) near5 (shape\$3 particle particulate powder\$3 core)  | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:42 |
| S4    | 934097 | (shell nanoshell surface layer coat\$3 film encapsulat\$4 surface near5 modified) near9 (dielectric insulat\$4 permittivity non\$2conduct\$4 oxide nitride (barium strontium lead) near3 (titanate zirconate) "BaTiO.sub.3" "PbZrO.sub.3" "SiO.sub.2" "Al.sub.2 O.sub.3" "TiO.sub.2" SiO2 Al2O3 TiO2 silica alumina titania (aluminum silicon titanium tantalum) adj \$2oxide)  | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:43 |
| S5    | 281    | S1 same S4 and S3   | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:43 |
| S6    | 224    | S1 with S4 and S3   | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:44 |
| S7    | 673    | S3 and S4   | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:44 |
| S8    | 126    | S7 and (428/323,328,332,336,357,361,364,368,386,387,389,402,403,404,405,689,918.ccls. 423/618,624.ccls. 106/441,455.ccls. 502/355.ccls. 977/773,811.ccls. 252/518.1,519.1,519.5,519.5,519.5,520.1,520.21.ccls. 313/439,493.ccls. 524/430-441,910.ccls.)   | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:45 |
| S9    | 55     | S8 and (ATO (antimony Sb) near2 (Sn tin ) adj oxide Sb near2 "SnO.sub.2")   | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:46 |
| S10   | 71     | S8 and ((length near5 width aspect) near3 ratio (major and minor ) adj2 axis)   | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:46 |
| S11   | 112    | S8 and (shell nanoshell layer coat\$4 film thick thickness) near5 (nanometer nm micron ".mu.m" millimicron ang\$7 Mil wt% wt\$5%)   | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:47 |
| S12   | 114    | S8 and (shell nanoshell encapsulat\$4 surface layer coat\$4 film ) near5 (nitride titanate zirconate oxide)   | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:48 |
| S13   | 25     | S8 and (shell nanoshell encapsulat\$4 surface layer coat\$4 film ) near5 (nitride )   | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:48 |
| S14   | 43     | ( ITO ATO AZO ( In Sb) near2 SnO2 (indium antimony In Sb) near2 (tin Sn) adj oxide ( Al aluminum Ga Gallium) near2 (ZnO Zinc adj oxide) BaPbO3 barium adj plumbate) with (core ultra\$2fine nano\$12 acicular sub\$2micron micron nm) and (metal adj nitride metal adj oxide alumina aluminum adj oxide Al2O3 silica SiO2 TiO2 titania titanium adj dioxide tantalum adj oxide (barium strontium lead) near2 (titanate zirconate) insulat\$4 dielectric) with (surface layer coating film shell encapsulated ) and (acicular needle nanorod whisker tubular rod elongated ) | EPO; JPO;<br>DERWENT | OR               | ON      | 2008/11/18<br>07:49 |
| S15   | 24     | ( ITO ATO ( In Sb) near2 ( tin adj oxide "SnO.sub.2") (Al Ga!) near2 (zinc adj oxide ZnO) (indium antimony In Sb) near2 ( tin stannic) adj oxide "BaPbO.sub.3" barium adj plumbate).cm. and (ultrafine ultra\$2fine nano\$15 sub\$2micron).cm. and ( encapsulat\$5 core and shell (dielectric insulat\$4 surface) near5 (shell layer film coat\$4)).cm. and (acicular needle whisker rod elongated ).cm.  | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/11/18<br>07:50 |

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|-----|----|--|---|----|----|---------------------|
| S16 | 7  | ((Takahiro near1 Matsumoto Toshiaki near1 Yamada Hirotaka near1 Tsuruya).in. mitsubishi adj gas adj chemical.as.) and ( ITO ATO (indium antimony In Sb) near3 ( tin stannic) adj oxide (Al Ga! gallium aluminum) near2 (ZnO zinc adj oxide)) and ( ultra\$2fine nano\$12 sub\$2micron micron ".mu.m" nm) and (oxide titanate zirconate nitride dielectric insulat\$4) and (shell nanoshell encapsulat\$4 surface layer coat\$4 film ) and (acicular needle whisker rod elongated ) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2008/11/18<br>07:51 |
| S17 | 40 | ( ITO ATO ( In Sb) near3 ( tin adj oxide "SnO.sub.2" ) (Al Ga!) near2 (zinc adj oxide ZnO) (indium antimony In Sb) near3 ( tin stannic) adj oxide "BaPbO.sub.3" barium adj plumbate) and (ultrafine ultra\$2fine nano\$15 sub\$2micron) and ( encapsulat\$5 core and shell (dielectric insulat\$4 surface) near5 (shell layer film coat\$4)) and (acicular needle whisker rod elongated )  | USOCR                                       | OR | ON | 2008/11/18<br>07:53 |
| S18 | 11 | ("5296168" "5534193" "9820502" "2001237507" "5294374" "5518810" "6992431" "200222757").PN.   | US-PGPUB;<br>USPAT;<br>DERWENT              | OR | ON | 2008/11/18<br>07:54 |

11/ 18/ 2008 7:57:14 AM

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